

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 07039-440001	Application No. 10/755,018
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)  (37 CFR §1.98(b))		Applicant Bianca A. Thomae et al.	
		Filing Date January 9, 2004	Group Art Unit 1656

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA						

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AB							

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
KG	AC	Begun et al., "Crystallization of PNMT, the adrenaline-synthesizing enzyme, is critically dependent on a high protein concentration," <u>Acta Crystallogr. D. Biol. Crystallogr.</u> , 2002, 58(Pt 2):314-315
KG	AD	Burke et al., "Evidence for decreased transport of PNMT protein in advanced Alzheimer's disease," <u>J. Am. Geriatr. Soc.</u> , 1990, 38(12):1275-1282
KG	AE	Comings, "Clinical and molecular genetics of ADHD and Tourette syndrome. Two related polygenic disorders," <u>Ann. N Y Acad. Sci.</u> 2001, 931:50-83
KG	AF	Dubb et al., "Studies with a PNMT inhibitor," <u>Clin. Pharmacol. Ther.</u> , 1979, 25(6):837-844
KG	AG	Grunewald et al., "Phenylethanolamine N-methyltransferase kinetics: bovine versus recombinant human enzyme," <u>Bioorg. Med. Chem. Lett.</u> , 2001, 11(12):1579-1582
KG	AH	Hemmick et al., "Regulation of PNMT gene promoter constructs transfected into the TE 671 human medulloblastoma cell line," <u>Neurosci. Lett.</u> , 1995, 201(1):77-80
KG	AI	Hoche et al., "Genetic linkage of the human gene for phenylethanolamine N-methyltransferase (PNMT), the adrenaline-synthesizing enzyme, to DNA markers on chromosome 17q21-q22," <u>Hum. Mol. Genet.</u> , 1992, 1(3):175-178
KG	AJ	Johannson et al., "Phenylethanolamine N-methyltransferase-like immunoreactivity in psoriasis. An immunohistochemical study on catecholamine synthesizing enzymes and neuropeptides of the skin," <u>Acta Derm. Venereol.</u> , 1987, 67(1):1-7
KG	AK	Kaneda et al., "Molecular cloning of cDNA and chromosomal assignment of the gene for human phenylethanolamine N-methyltransferase, the enzyme for epinephrine biosynthesis," <u>J. Biol. Chem.</u> , 1988, 263(16):7672-7677
KG	AL	Kaneda et al., "Identification of the essential cysteinyl residue located in the active site of human phenylethanolamine N-methyltransferase," <u>Biochem. Biophys. Res. Commun.</u> , 1998, 249(2):405-409
KG	AM	Lew et al., "Localization and characterization of phenylethanolamine N-methyl transferase in the brain of various mammalian species," <u>Brain Res.</u> , 1977, 119(1):199-210
KG	AN	Martin et al., "Getting the adrenaline going: crystal structure of the adrenaline-synthesizing enzyme PNMT," <u>Structure (Camb)</u> , 2001, 9(10):977-985
KG	AO	Reid et al., "Radioenzymatic determination of phenylpropanolamine in plasma," <u>Anal. Biochem.</u> , 1987, 165(2):275-86
KG	AP	Saito et al., "Identification of 197 genetic variations in six human methyltransferase genes in the Japanese population," <u>J. Hum. Genet.</u> , 2001, 6(9):529-537

Examiner Signature <i>Kagan G. [Signature]</i>	Date Considered 11/02/2007
---	-------------------------------

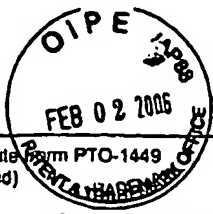
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 07039-440001	Application No. 10/755,018
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Bianca A. Thomae et al.	
		Filing Date January 9, 2004	Group Art Unit 1656

**Other Documents (include Author, Title, Date, and Place of Publication)**

Examiner Initial	Desig. ID	Document
<i>check</i> <i>KG</i>	AQ	Wu and Comings, "Two single nucleotide polymorphisms in the promoter region of the human phenylethanolamine N-methyltransferase PNMT gene," <i>Psychiatr. Genet.</i> , 1999, 9(4):187-188
<i>KG</i>	AR	Yoo-Hun et al., "Cloning and analysis of the pseudogene for human epinephrine synthesizing enzyme, phenylethanolamine N-methyltransferase (PNMT)," <i>Int. J. Biochem.</i> , 1990, 22(8):921-924

Examiner Signature <i>Kagun G. Jones</i>	Date Considered <i>11/02/2007</i>
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	



Do NOT SCAN

Sheet 1 of 1

Substitute Form PTO-1449 (Modified)  <b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)  (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. <b>07039-440001</b>	Application No. <b>10/755,018</b>
	Applicant <b>Bianca A. Thomae et al.</b>		
	Filing Date <b>January 9, 2004</b>	Group Art Unit <b>1652</b>	

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AL							
	AM							
	AN							
	AO							
	AP							

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
KG	AQ	Chin, "On the preparation and utilization of isolated and purified oligonucleotides," University of North Carolina, March 9, 2002 (on CD due to large volume of pages)
	AR	
	AS	
	AT	

Examiner Signature <b>/Kagnew Gebreyesus/</b>	Date Considered <b>08/09/2006</b>
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Disclosure Form (PTO-1449)

DO NOT SCAN

Sheet 1 of 3

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 07039-440001	Application No. 10/755,018
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)		Applicant Bianca A. Thomae et al.	
		Filing Date January 9, 2004	Group Art Unit 1645

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
KG	AA	5,451,683	09/19/05	Barrett et al.			
KG	AB	5,733,729	03/31/98	Lipshutz et al.			
KG	AC	5,770,722	06/23/98	Lockhart et al.			

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
KG	AD	WO 98/20019	05/14/98	PCT/				
KG	AE	WO 99/57318	11/11/99	PCT				

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
KG	AF	GenBank Accession No. J03727 dated 01/08/95 ✓
KG	AG	GenBank Accession No. X52780 dated 04/24/93 ✓
KG	AH	Böttner et al., "Increased Body Fat Mass and Suppression of Circulating Leptin Levels in Response to Hypersecretion of Epinephrine in Phenylethanolamine-N-Methyltransferase (PNMT)-Overexpressing Mice," <u>Endocrinology</u> , 2000, 141(11):4239-4246
KG	AI	Caine et al., "Recombinant human phenylethanolamine N-methyltransferase: overproduction in Escherichia coli, purification, and characterization," <u>Protein Expr. Purif.</u> , 1996, 8(2):159-166
KG	AJ	Chadwick et al., "Heterozygote and Mutation Detection by Direct Automated Fluorescent DNA Sequencing Using a Mutant <i>Taq</i> DNA Polymerase," <u>BioTechniques</u> , 1996, 20:676-683
KG	AK	Cibelli et al., "Cloned Transgenic Calves Produced from Nonquiescent Fetal Fibroblasts," <u>Science</u> , 1998, 280:1256-1258
KG	AL	Cleland, "Computer Programmes For Processing Enzyme Kinetic Data," <u>Nature</u> , 1963, 198:463-365
KG	AM	Cote et al., "Generation of human monoclonal antibodies reactive with cellular antigens," <u>Proc. Natl. Acad. Sci. USA</u> , 1983, 80:2026-2030
KG	AN	Cole et al., "The EBV-Hybridoma Technique and its Application to Human Lung Cancer," <u>Monoclonal Antibodies and Cancer Therapy</u> , 1985, Alan R. Liss, Inc., pp. 77-96
KG	AO	Excoffier and Slatkin, "Maximum-Likelihood Estimation of Molecular Haplotype Frequencies in a Diploid Population," <u>Mol. Biol. Evol.</u> , 1995, 12(5):921-927
KG	AP	Gearhart et al., "Phenylethanolamine N-methyltransferase has beta-carboline 2N-methyltransferase activity: hypothetical relevance to Parkinson's disease," <u>Neurochem. Int.</u> , 2002, 40(7):611-620
KG	AQ	Gordon et al., "Consed: A Graphical Tool for Sequence Finishing," <u>Genome Res.</u> , 1998, 8:195-202
KG	AR	Guatelli et al., "Isothermal, <i>in vitro</i> amplification of nucleic acids by a multienzyme reaction modeled after retroviral replication," <u>Proc. Natl. Acad. Sci. USA</u> , 1990, 87:1874-1878

Examiner Signature /Kagnew Gebreyesus/	Date Considered 08/09/2006
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Disclosure Form (PTO-1449)

DO NOT SCAN

Sheet 2 of 3

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 07039-440001	Application No. 10/755,018
<b>Information Disclosure Statement</b> <b>by Applicant</b> (Use several sheets if necessary) MAY 16 2005 37 CFR §1.98(b)		Applicant Bianca A. Thomae et al.	
		Filing Date January 9, 2004	Group Art Unit 1645

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
KG	AS	Hacia et al., "Detection of heterozygous mutations in <i>BRCA1</i> using high density oligonucleotide arrays and two-colour fluorescence analysis," <i>Nature Genet.</i> , 1996, 14:441-447
KG	AT	Halushka et al., "Patterns of single-nucleotide polymorphisms in candidate genes for blood-pressure homeostasis," <i>Nature Genet.</i> , 1999, 22:239-247
KG	AU	Hartl and Clark, "Chromosomes and Heredity," <i>Principles of Population Genetics</i> , 3rd Edition, 1997, Sinauer Associates, Inc., Sunderland, MA, pp. 96-106
KG	AV	Hedrick, <i>Genetics of Populations</i> , 2nd Edition, 2000, Jones and Bartlett, Sudbury, MA, pp. 396-405
KG	AW	Huse et al., "Generation of a Large Combinatorial Library of the Immunoglobulin Repertoire in Phage Lambda," <i>Science</i> , 1989, 246:1275-1281
KG	AX	Hyrup and Nielsen, "Peptide Nucleic Acids (PNA): Synthesis, Properties and Potential Applications," <i>Bioorgan. Med. Chem.</i> , 1996, 4(1):5-23
KG	AY	Köhler and Milstein, "Continuous cultures of fused cells secreting antibody of predefined specificity," <i>Nature</i> , 1975, 256(5512):495-497
KG	AZ	Kozbor and Roder, "The production of monoclonal antibodies from human lymphocytes," <i>Immunology Today</i> , 1983, 4:72-79
KG	AAA	Lewis, "PCR's Competitors Are Alive and Well and Moving Rapidly Towards Commercialization," <i>Genetic Engineering News</i> , 1992, 12(9):1-3
KG	ABB	Long et al., "An E-M Algorithm and Testing Strategy for Multiple-Locus Haplotypes," <i>Am. J. Hum. Genet.</i> , 1995, 56:799-810
KG	ACC	Mann et al., "Association between the phenylethanolamine N-methyltransferase gene and multiple sclerosis," <i>J. Neuroimmunol.</i> , 2002, 124(1-2):101-105
KG	ADD	Mann et al., "Phenylethanolamine N-methyltransferase ( <i>PNMT</i> ) Gene and Early-Onset Alzheimer Disease," <i>Am. J. Med. Genet.</i> , 2001, 105(4):312-316
KG	AEE	Molinoff et al., "A Sensitive Enzymatic Assay for Dopamine- $\beta$ -Hydroxylase," <i>J. Pharmacol. Exp. Ther.</i> , 1971, 178(3):425-431
KG	AFF	Myakishev et al., "High-Throughput SNP Genotyping by Allele-Specific PCR with Universal Energy-Transfer-Labeled Primers," <i>Genome Research</i> , 2001, 11(1):163-169
KG	AGG	Nickerson et al., "PolyPhred: automating the detection and genotyping of single nucleotide substitutions using fluorescence-based resequencing," <i>Nucl. Acids Res.</i> , 1997, 25(14):2745-2751
KG	AHH	Prince et al., "Robust and Accurate Single Nucleotide Polymorphism Genotyping by Dynamic Allele-Specific Hybridization (DASH): Design Criteria and Assay Validation," <i>Genome Res.</i> , 2001, 11(1):152-162
KG	AII	Schafer and Hawkins, "DNA variation and the future of human genetics," <i>Nat. Biotechnol.</i> , 1998, 16:33-39
KG	AJJ	Shastri, "Gene disruption in mice: Models of development and disease," <i>Mol. Cell. Biochem.</i> , 1998, 181:163-179
KG	AKK	Stoneking et al., "Population Variation of Human mtDNA Control Region Sequences Detected by Enzymatic Amplification and Sequence-specific Oligonucleotide Probes," <i>Am. J. Hum. Genet.</i> , 1991, 48:370-382
KG	ALL	Summerton and Weller, "Morpholino Antisense Oligomers: Design, Preparation, and Properties," <i>Antisense Nucleic Acid Drug Dev.</i> , 1997, 7:187-195
KG	AMM	Tai et al., "Glucocorticoid Responsiveness of the Rat Phenylethanolamine N-methyltransferase Gene," <i>Mol. Pharmacol.</i> , 2002, 61(6):1385-1392

Examiner Signature /Kagnew Gebreyesus/	Date Considered 08/09/2006
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Disclosure Form (PTO-1449)

DO NOT SCAN

Sheet 3 of 3

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 07039-440001	Application No. 10/755,018
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary) <b>MAY 16 2005</b> (37 CFR §1.98(b))		Applicant Bianca A. Thomae et al.	
		Filing Date January 9, 2004	Group Art Unit 1645

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
KG	ANN	Terwilliger and Ott, "Linkage Disequilibrium between Alleles at Marker Loci," <u>Handbook of Human Genetic Linkage</u> , 1994, The Johns Hopkins University Press, Baltimore, pp. 188-193
KG	AOO	Underhill et al., "Detection of Numerous Y Chromosome Biallelic Polymorphisms by Denaturing High-Performance Liquid Chromatography," <u>Genome Res.</u> , 1997, 7:996-1005
KG	APP	Wakayama et al., "Full-term development of mice from enucleated oocytes injected with cumulus cell nuclei," <u>Nature</u> , 1998, 394(6691):369-374
KG	AQQ	Warthan et al., "Phenylethanolamine N-methyl transferase expression in mouse thymus and spleen," <u>Brain Behav. Immun.</u> , 2002, 16(4):493-499
KG	ARR	Weiss, "Hot Prospect for New Gene Amplifier," <u>Science</u> , 1991, 254:1292-1293
KG	ASS	Wilkinson, "Statistical Estimations in Enzyme Kinetics," <u>Biochem. J.</u> , 1961, 80:324-332
KG	ATT	Wilmot et al., "Viable offspring derived from fetal and adult mammalian cells," <u>Nature</u> , 1997, 385(6619):810-813
KG	AUU	Wong et al., "Human GM-CSF: Molecular Cloning of the Complementary DNA and Purification of the Natural and Recombinant Proteins," <u>Science</u> , 1985, 228:810-815

Examiner Signature /Kagnew Gebreyesus/	Date Considered 08/09/2006
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Disclosure Form (PTO-1449)